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Test of Independence (Chi-Square)	
Alpha	0.05
df	12
P-value	2.33E-14
Test Statistic	91.687006
Critical Value	21.026070

Figure 358: Results of chi-square test

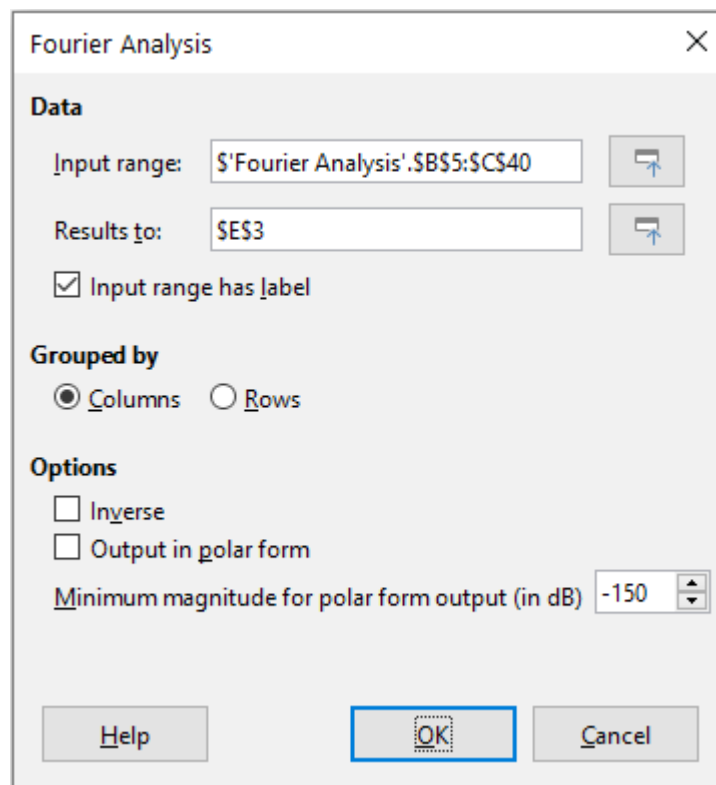
It is possible to insert different values for Alpha. The Critical Value will be updated automatically.

Tip

For more information on chi-square tests, refer to the corresponding Wikipedia article at https://en.wikipedia.org/wiki/Chi-squared_test.

Fourier Analysis tool

The Fourier Analysis tool performs the Fourier analysis of a data set by computing the Discrete Fourier Transform (DFT) of an input array of complex numbers, using Fast Fourier Transform (FFT) algorithms. Select **Data > Statistics > Fourier Analysis** on the Menu bar to access the Fourier Analysis dialog (Figure 359).



The dialog box is titled "Fourier Analysis" and has a close button (X) in the top right corner. It is divided into three main sections: "Data", "Grouped by", and "Options".

- Data**: Contains two text boxes. "Input range:" is set to "\$'Fourier Analysis'.SB\$5:SC\$40" and "Results to:" is set to "\$E\$3". Both have selection icons to the right. There is a checked checkbox "Input range has label".
- Grouped by**: Contains two radio buttons: "Columns" (selected) and "Rows".
- Options**: Contains two unchecked checkboxes: "Inverse" and "Output in polar form". Below them is a text box "Minimum magnitude for polar form output (in dB)" set to "-150" with a spinner control.

At the bottom are three buttons: "Help", "OK" (highlighted with a blue border), and "Cancel".

Figure 359: Fourier Analysis dialog

Input range

Specifies the cell range containing the source data. A 2 x N or N x 2 range representing an array of complex numbers to be transformed, where N is the length of the array. The array contains the real and imaginary parts of the data.

Results to

Specifies the top left cell of the results area. When you run the tool, it will generate the Fourier transform table starting at this cell.